

Las Cruces Sun-News

Ransomware hits Las Cruces school servers, prompts shutdown





Insurance Journal

Ransomware Attacks Rise 37% in Q3, Targeting IT Vendors, Their Clients: Beazley

Ransomware attacks increased by 37% during the third quarter of 2019, compared to Q2, as cyber criminals target both IT vendors and their ... 23 hours ago



13WMAZ.com

Macon Water Authority online services hit with ransomware attack

MACON, Ga. — The Macon Water Authority says their servers are recovering after a ransomware attack that happened Sunday. According to a



SANS

NewsBites

Annotated News Update from the Leade Training, Certification and Research

October 29, 2019

Vol. 21, Num. 085

Top of The News

- Insurance Companies See Increasing Numbers of Ransomware Claims
- Johannesburg City Data Held for Ransom
- St. Louis Healthcare and Social Services
 Provider Struggling with Ransomware Attack

Cyber

SANS

Washin

SANS



PREVENTION VS. CURE

- Complete ransomware protection is multi-phased:
 - Preventing attacks
 - Backing up data to minimize damage from an attack
 - Building in resiliency to recover quickly from an attack

This briefing focuses on prevention

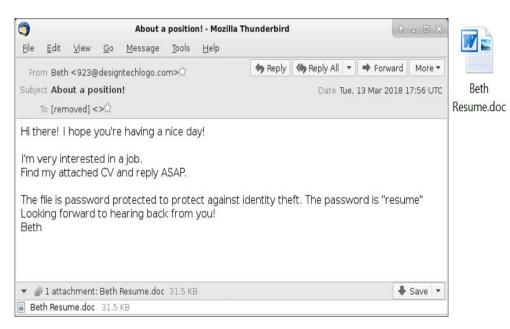


DEFENDING YOUR NETWORK "HOME"

- Hackers are not specifically targeting you; they are looking for easy targets
- Local governments are appealing targets in general lots of valuable
 PII, but limited budgets and resources
- It's a big neighborhood (over 75,000 local government entities in the US)
- Be the hard target; send hackers to a softer target down the errable

Ransomware Infection
Techniques

Malicious Emails – Opening the Door











DARKReading 9/26/19

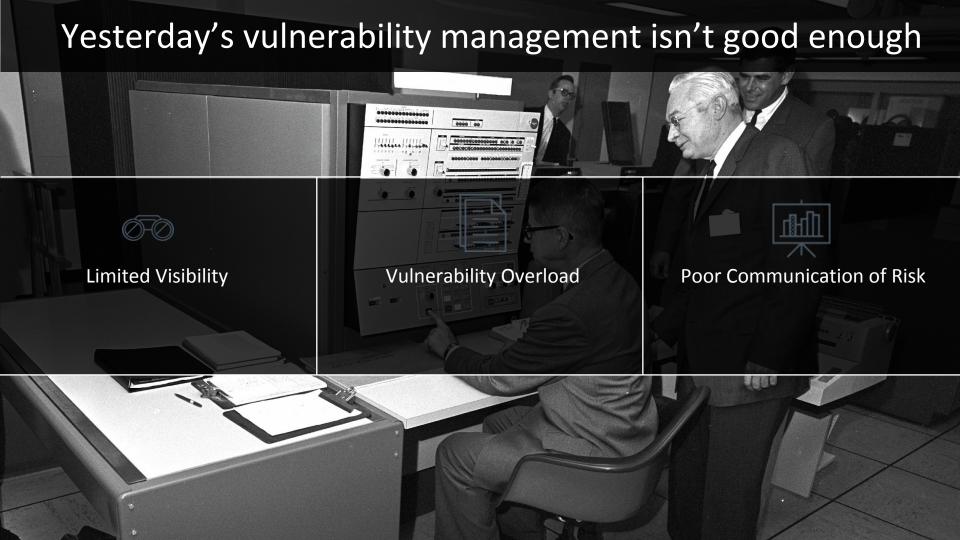
Ransomware Hits Multiple, Older Vulnerabilities

Ransomware attacks are taking advantage of vulnerabilities that are older and less severe, a new report finds.

Ransomware attacks are taking advantage of vulnerabilities that might have gone unnoticed by security teams, with more than half of exploited vulnerabilities having a CVSS v2 score less than 8.

This 2019 report found that **35% of the vulnerabilities exploited in ransomware attacks were more** than 3 years old.

Source: https://www.darkreading.com/vulnerabilities---threats/ransomware-hits-multiple-older-vulnerabilities-/d/d-id/1335930



Upgrade to
Risk-based
Vulnerability
Management



- See the full attack service
- Eliminate vulnerability overload
- Measure risk, not vulnerabilities



Risk-Based Vulnerability Management

Risk-Based Vulnerability Management (RBVM) is a process that uses machine learning analytics to correlate vulnerability severity, threat actor activity and asset criticality to identify and manage issues posing the greatest risk.



From Vulnerability Management to Risk Based VM



RISK BASED VULNERABILITY MANAGEMENT



Powered by Prediction



Focused on ris



Continuous in-depth assessment of the converged attack surface



Prioritization based on threats and business impact

Answers the questions:

- Where should we prioritize based on risk?
- What is the impact if a vulnerability is exploited?
- · What should we focus on first?

COMPARING LEGACY VM TO RBVM

VM **RBVM Compliance Driven Risk Driven Expansion to Apps & Modern Assets** Infrastructure/IT Focus **Dynamic, Continuous Visibility** Static, Point in Time Visibility **Prioritization & Strategic Decision** Policies & Audit Support Support **Proactive** Reactive Vuln Data Correlated w/ Threat Intelligence & **Vulnerability Data Only Asset Criticality**

The Cyber Exposure Lifecycle for Risk Based VM



Leveraging threat intelligence and business context to focus on vulnerabilities that are likely to be exploited





Prioritize Vulnerabilities and Assets



16500+

VULNERABILITIES DISCLOSED IN 2018

59%

Of vulnerabilities disclosed in 2018 were rated critical or high.

Over 9,500+ Vulnerabilities

15%

Of vulnerabilities disclosed in 2018 were CVSS 9+

2,500 Vulnerabilities

7%

Of vulnerabilities disclosed had publicly available exploits

Over 1,100 Vulnerabilities





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Leverages supervised machine learning algorithms to calculate the priority of a vulnerability based on the real threat posed.

Key Drivers include



Threat Recency



Threat Intensity



Exploitability



Vulnerability Age



Threat Sources

Elevation of privilege vulnerability in Windows Used in Texas (+ other) 2019 ransomware attacks

Predictive Prioritization analysis for CVE-2018-8453



tenable

ASSET CRITICALITY RATING

Leverages algorithms to calculate the criticality of an asset to focus prioritization efforts. Key drivers include



Business Purpose



Device Type



Connectivity



Capabilities



3rd Party Data

FOCUS FIRST ON WHAT MATTERS MOST

VPR

VULNERABILITY PRIORITY RATING

Leverage machine learning and **threat** intelligence to prioritize vulnerabilities based on **likelihood** of exploitation

ACR

ASSET CRITICALITY RATING

Prioritize assets based on the indicators of business value and **impact** CES

CYBER EXPOSURE SCORE

Objectively measure the Cyber Risk of an asset, business unit or whole organization



FORRESTER®

"Tenable executes on its vision to build the **single-source-of-truth platform for VRM.** Part of Tenable's strong strategy relies on **translating data to provide business insight** to provide prioritization."

THE FORRESTER WAVE™

Vulnerability Risk Management

Q4 2019



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Thank you

